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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,019	02/14/2002	Ken Cameron	032658-023	5665
7590 03/22/2005			EXAMINER	
Kenneth B. Leffler BURNS, DOANE, SWECKER & MATHIS, L.L.P.			BILGRAMI, ASGHAR H	
P.O. Box 1404			· ART UNIT	PAPER NUMBER
Alexandria, VA 22313-1404			2143	
			DATE MAILED: 03/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/074,019	CAMERON, KEN			
Office Action Summary	Examiner	Art Unit			
	Asghar Bilgrami	2143			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONEL	ely filed will be considered timely. he mailing date of this communication. 0 (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 06 Ma	ay 2002.				
•					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-14 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-14</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>06 May 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> </ul>					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attack mont/s)					
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 11/0/12002.  5) Notice of Informal Patent Application (PTO-152)  6) Other:					

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Nagami et al (U.S. 6,104,713).
- 1. A processing system comprising a plurality of processing engines for processing datagrams in a predetermined order, each processing engine comprising at least one input port, at least one output port and at-least one processing element (col.4, lines 57-67 & col.5, lines 1-12), the at least one processing element comprising an input port connected to the at least one input port of the processing engine, an output port connected to the at least one output port of the processing engine and arithmetic and logic means (col.12, lines 66-67, col.13, lines 1-50, col.14, lines 53-60 & see figure 4), the order of processing datagrams being controlled at the at least one input port of the processing engine and the at least one output port of the processing engine by a ticket associated with the datagram or a group of the datagrams (col.11, lines 7-22).

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2.A method according to claim 1, wherein the order of the datagrams or group of datagrams at the at least one input port corresponds to the order of the datagrams at the at least one output port (col.11, lines 7-22, col.14, lines 21-35 & col.17, lines 58-67).

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- 3.A method according to claim 1, wherein the tickets comprise numerical values (col.11, lines 7-22)
- 4. A method according to claim 1, wherein the ticket comprises a semaphore with data associated therewith (col.11, lines 23-35).
- 6. A processing engine according to claim 5, wherein the processing element comprises an element of a multi threaded array processing engine (col.10, lines 16-43).
- 7. A processing engine according to claim 5, wherein the processing element can leave or enter the predetermined order (col.16, lines 34-47).
- 9. A processing system according to claim 8, wherein datagrams are processed in a round robin manner (col.20,lines 57-66).
- 10. A processing system according to claim 8 further comprising a ticket dispense for giving tickets to a datagram or group of datagrams (col.11, lines 7-22, col.14, lines 21-35 & col.17, lines 58-67).

11. A processing system according to claim 10, wherein the tickets are issued on a first come first served basis (col.11, lines 7-22, col.14, lines 21-35 & col.17, lines 58-67).

- 12. A processing system according to claim 8 further comprising a counter for maintaining the value of the current ticket (col.12, lines 66-67, col.13, lines 1-50 & col.16, lines 59-67).
- 13. A processing system according to claim 12, wherein the counter comprises storage means for storing a numerical value (col.12, lines 66-67, col.13, lines 1-50 & col.16, lines 59-67).
- 14. A processing system according to claim 13, wherein once a processing element is allocated a datagram or group of datagrams for processing, the counter is incremented (col.16, lines 59-67 & col.17, lines 1-6).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asghar Bilgrami whose telephone number is 571-272-3907. The examiner can normally be reached on M-F, 8:00-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Asghar Bilgrami

Examiner

Art Unit 2143

AB